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Commissioner for Patents PO BOX 1450 Alexandria VA 22313-1450

Sir:

I hereby certify that the complete attached response / document is being deposited with the United States Postal Service as EXPRESS mail article number ER715475086US Post Office to Addressee, with sufficient postage prepaid in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450

on this date: \_\_\_

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Brad A. Armstrong

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## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patent PO BOX 1450 Alexandria VA 22313-1450

Re: Patent Application of Brad A. Armstrong

Serial No.:

09/896,680 06/29/2001

Filed:

00,20,200

Applicant's file no. F29

Correspondence mailing address: Brad A. Armstrong

P.O. Box 2048

Carson City, NV 89702

Title: CONTROLLER WITH ANALOG PRESSURE SENSOR(S)

Examiner: Nguyen, Kim

GAU: 3713

## Examiner Nguyen:

This Information Disclosure Statement (IDS) is being filed with an RCE along with the large entity fee payment for the RCE and therefore no fee

payment is required for the information of the IDS to be considered by the PTO.

Many of the listed references on the attached IDS sheets were considered by Examiner Paradiso prior to his issuance of the "Notice of Allowance", however many of the listed references were NOT considered by Examiner Paradiso prior to his issuance of the "Notice of Allowance". Applicant would expect the current Examiner would like to consider all of the prior art and references for herself if the issue of allowability is going to be reconsidered, and then initial each considered reference. However, if the current Examiner wishes Applicant to identify or remove those references already considered by Examiner Paradiso, so that only the newly submitted references are set-forth, please inform Applicant and such will be promptly complied with for the convenience of the Examiner. Thank you.

The following sections below address disclosures of prior art and also relevant art that may pertain to the claims of this application.

1. As part of this Information Disclosure Statement are listings on modified 1449 forms of: A) US Patent References, B) Foreign Patent References, C) Non Patent Disclosures and Other References, and D) US Patent Application Publications.

Best full or partial copies Applicant currently possesses of each of the Foreign Patent References and Non Patent Disclosures and Other References are included herewith. Applicant understands that the PTO now supplies its own copies of the US Patents and US Patent Applications cited in new patent applications. If this is not correct and Applicant is required to acquire paper copies from the PTO, please inform Applicant as soon as possible so that the copies can be ordered from the PTO and sent back to the Examiner. Thank you.

If Applicant accidentally failed to supply a copy of any reference and the Examiner does not retrieve a copy from a source at the PTO, please inform Applicant so that Applicant can promptly send a copy to the Examiner. Thank you.

The Foreign Patent References are in some cases foreign patents and in other cases patent applications.

Each of the four above described lists includes references to Footnotes of Special Interest. The "Footnotes-References of Special Interest" are included to provide assistance to the Examiner while determining allowability of the claims. The Footnotes mainly pertain to Office Actions. So that the Examiner may be fully informed of all objections made in the past by any Patent Examiner against any of Applicant's claims, Applicant herein includes a copy of each Office Action regarding Applicant's other Patent Applications wherein an Examiner relied upon the "special interest" identified reference art as indicating lack of novelty or indicating obviousness either alone or in combination for the then claimed invention. Many of these objections were later found by the Examiner of record to be overcome resulting in issuance of a U.S. Patent, but only the objections are listed here for the sake of brevity and so that the current Examiner can be fully informed of all arguments made in the past by other PTO Examiners against Applicant's claims. The current Examiner is requested to contact Applicant if Applicant can answer any questions regarding any of these Office Actions or the inventions to which they pertain.

2. Applicant has also provided the below comments and included photographs regarding products once on the market. One such product is the CyberMan<sup>™</sup> controller first sold in 1993 in the USA by Logitech Inc. 6505 Kaiser Dr., Fremont CA USA. Applicant believes he is the inventor of the CyberMan controller which was made without his permission after failed licensing negotiations regarding Applicant's US Patent Application No. 07/847,619 now

Patent 5,589,828. Applicant believes an element disclosed in the CyberMan that was not taught in the '828 Patent is the membrane element. Membrane elements are taught in Applicant's US Patent Application No. 08/677,378 filed July 5, 1996. It appears to Applicant that the "one year bar" rule applies to the membrane connection of sensors as disclosed in CyberMan. Nevertheless the '378 Patent Application teaches a great variety of novel and unobvious utilizations of a membrane in unique combination with many important elements. Additionally the '378 application teaches many elements in inventive combination, numerous structural variations and inventive leaps; both with and without the cost saving advantages taught in the '378 application of the membrane connecting to the circuit board without the expensive wiring harness of CyberMan. Many embodiments of the '378 application do not require use of a membrane to be novel and inventive. And many embodiments of the '378 application having a membrane are novel and inventive over the CyberMan disclosure.

Located at the top of the stack of Reference Art copies is a CyberMan disclosure containing 1) an advertisement flyer with the heading CyberMan 3D Controller and 2) photographs 1, 2 and 3 of the CyberMan Controller assembled and also disassembled. Photograph 1 shows the CyberMan in a top perspective view and showing a base, a handle and three buttons. Photograph 2 shows a portion of the CyberMan in a disassembled state and showing the handle, three buttons, a microswitch for one of the buttons, a wiring harness spanning between a membrane located in the handle and a circuit board located in the base. The three buttons each use normally-open momentary-On switches. No proportional pressure-sensors are used. Movement of the major plate is tracked by two bidirectional slide potentiometers (variable resistors), all other sensors are unidirectional sensors of a momentary-On On/Off only type. The major plate is moveable in two-axes. Photograph 3 shows a portion of the CyberMan in a disassembled state. Shown in photograph 3 is the handle in an upside-down position and having a motor with offset weight for providing active tactile

feedback. Four metal dome On/Off switches on a 1<sup>st</sup> plane (two axes input), and two more On/Off switches located on a third and fourth planes (third axis) are all integrated with the flexible membrane. The membrane further has solder connections to two metal dome On/Off switches (fourth axis) and solder connections to the three On/Off microswitches associated with the finger depressible buttons.

The membrane is located in the handle and the circuit board is located in the base. The expensive conventional wiring harness spans between the membrane in the handle and the circuit board in the base. The membrane does not physically engage, contact or connect to the circuit board. The membrane does not touch the circuit board and does not lay adjacent to the circuit board. The membrane is not adhered to the circuit board, directly connected to the circuit board, or otherwise in close proximity to the circuit board. All metal domes and physical switch packages are located on only one side of the membrane.

Regarding the circuit board, two sensors are located on only one side of the circuit board (the two bi-directional sliding potentiometers or variable resistors) the second side of the circuit board has no sensors located on it.

The Examiner is respectfully requested to examine the claims in light of the CyberMan disclosure which the Applicant has described herein and included photographs for the Examiner's consideration. If the Examiner needs any additional information regarding CyberMan please contact Applicant or Logitech at the above listed address, or Applicant would be glad to supply a working example of the CyberMan (with screwdriver included:-) for the Examiner.

3. Another product on or once on the market is a video game controller manufactured by Namco Ltd. The Namco controller is believed to have been the controller that was referred to as the "NEO GEO" controller in Application No. 08/942,450 now Patent 6,102,802, in paper no. 3, a Preliminary Amendment dated July 7, 1999 by the PTO and cited by Applicant at that time for an example of a two hand held controller with an analog button in the right hand area. The

Namco controller has POSITIONAL button sensors which were critically differentiated from Applicant's PRESSURE button sensors resulting in the now issued U.S. Patent 6,102,802. Of interest to the present claims the Namco controller is an image controller utilizing four rotary potentiometers. The printed material associated with the Namco controller has a copyright date of 1994 which Applicant assumes is the first time of sale to the public. Three photographs are included of the Namco controller.

Photograph 1 is of the top of the controller. In the left hand area is positioned a four-way cross key or rocker for operation by the user's left hand thumb. The rocker actuates four normally-open momentary-On On/Off only switches. Two shoulder buttons are positioned for operation one each for the user's right and left hand index fingers. Four individual buttons are embodied in the right hand area for operation by the right hand thumb. Two of the four buttons are normally-open momentary-On On/Off only switches. The other two of the buttons on the right hand area of the Namco controller are buttons structured to drive gears to rotate potentiometers. These gear-drive buttons are depressible only in a linear fashion, the buttons themselves do not pivot or rotate.

Photograph 2 is a picture of the Namco controller in an upside-down position with a housing bottom panel removed on the right hand side of the controller in order to show internal components associated with the two gear-drive buttons. The buttons rest on metal coil compression springs and the human user can depress the buttons with his right thumb. The metal coil springs return the buttons to a normally extended or raised position. The buttons are connected to rack and pinion gears to translate the linear travel of the buttons into rotation of a pinion gear, and the pinion gear is connected to the rotary shaft of an electrical rotary potentiometer.

Photograph 3 is a picture of the Namco controller in an upside-down position with both housing bottom panels removed to show the internal components of the controller. Four rotary potentiometers are utilized. The first and second rotary potentiometers are as described in Photograph 2 above. The third rotary potentiometer is utilized with a similar rack and pinion type gearing

with an individual button, this button being the shoulder button depressible by the user's left hand index finger. The fourth rotary potentiometer has planetary type gearing for sensing the articulation between the right and left hand areas of the Namco case. Of interest the three rotary potentiometers associated with depressible buttons are not embodied to act as bi-directional sensors as defined in the current specification. In contrast the fourth rotary potentiometer is embodied in the Namco controller as a bi-directional sensor, for example, the two case halves of the Namco controller can be rotated in two separate directions for the normally resting position. The Namco controller also has three circuit boards.

The Namco controller does not have a flexible membrane connecting to any circuit board. The Namco controller does not have a flexible membrane bearing circuitry. The Namco controller does not have any structure for active tactile feedback. The Namco controller does not have a motor and offset weight. The Namco controller does not have any pressure sensors. The Namco controller does not pressure sensors associated with individual buttons. The Namco controller does not have any pivotal or rotary buttons. The Namco controller does not have any single element structured to activate more than one rotary potentiometer.

4. Relevant to any passive tactile feedback with variable output sensor feature is U.S. Patent 4,786,764 issued to Padula, et al on Nov. 22, 1988 for the invention entitled DIGITIZER STYLUS WITH PRESSURE TRANSDUCER. The Padula patent describes an elongated stylus held in one hand similar to a pen or pencil for writing on an electronic digitizer tablet. One primary problem sought to be solved by Padula is the elimination of spurious data inputs during signature verification from less than adequate pressing force by the human hand of the stylus tip against the digitizer tablet. To solve that problem Padula describes use of a pressure switch which includes a transducer in the form on an ink layer having electrical resistance which varies as a function of pressure. The transducer material is in contact with circuitry on a flexible material sheet. The pressure switch is located in the stylus wherein the force against the stylus tip is

applied to the transducer. The variable output (analog output) of the pressure switch is read by processing electronics. The analog output changes with increasing force against the stylus, and when a threshold level change is detected data flow from the stylus is allowed. A collapsible dome of metal in the stylus is arranged to collapse with snap action and provide tactile feedback to the user when the predetermined force is obtained. When pressure is removed from the stylus tip, the dome snaps back to its original undeformed state, ready for the next operation. Thus while in one embodiment the pressure switch is described or used as an On and Off switch with the stylus actuated with sufficient force and deactivated with less force against the tip, Padula et al also detail that this analog signal can be used advantageously in mechanical or electrical drawing, where varying force indicates the use of or need for lines of varying thickness, for example, when digitizing a blueprint or circuit, in addition to the use already noted in connection with signature verification. In another embodiment of the invention, the part which is displaceable against the transducer when the pressure is applied to the stylus tip is resilient and rounded, whereby the area of the part pressed against the transducer increases as the pressure increases. The change in resistance in this case is a function of both the pressure and the change in the surface area of contact between the displaceable part and the transducer. The Examiner is requested to read Padula for the relevant details. Thank you.

US Patent 5,164,697 to Kramer describing an "INPUT KEYBOARD FOR AN ELECTRONIC APPLIANCE IN ENTERAINMENT ELECTRONICS" (the title) includes the word "snap" twice in the disclosure. Once in column 1 lines 10-35 and again in column 5, lines 35-51. In Applicant's opinion, the snap or snap effect in the Kramer U.S. Patent 5,164,697 in each of the two occurrences refers only to the rapid or quick movement of the contacts relative to each other, and has nothing to do with tactile feedback to the user. A third party, during licensing negotiations with Applicant, asserted the snap in Kramer was a description of

tactile feedback, however, Applicant disagrees. The Examiner is requested to read Kramer for himself regarding the details of Kramer. Thank you.

- 5. Please consider the issue of double-patenting regarding this application and all of Applicant's other pending U.S. applications which can be readily located by a search of the PTO records for pending applications under the Inventor name of "Brad A. Armstrong". If the Examiner wishes and requests such, Applicant would be more than willing to submit copies of all of his currently pending claims. Applicant would be happy to discuss each claim with the Examiner. If the Examiner believes that would be helpful, please do not hesitate in requesting such from Applicant. Thank you.
- 6. Also, please consider the issue of double-patenting regarding this application and all of Applicant's Issued U.S. Patents which can be readily located by a search of the PTO records for issued patent under the Inventor name of "Brad A. Armstrong". If the Examiner wishes additional information, please do not hesitate in requesting such from Applicant. Thank you.

Applicant realizes this IDS is extensive and sincerely apologizes to the Examiner. The legal system regarding prior art disclosure, as presently determined by the courts, is a harsh master – expensive, time consuming and difficult – for an inventor who only wants to enjoy the fruit of his invention. Please examine the claims thoroughly so that Applicant may receive a valid and worthy Patent. Thank you for your time.

Please do not hesitate in requesting anything which might be of assistance from Applicant.

Respectfully,

Brad A. Armstrong

Date

Nov. 1, 2004

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Foreign Patent	Publication	Inventor or Applicant	Relevent Information
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<u>Initials</u>	Patent Number	<u>Date</u>	<u>Name</u>			<u>-</u>
	2430284	11/4/1947	EVERS	Cited for Related Interest	341/187	·
			DURAND	Cited for Related Interest	74/471	
			FUJITA	Footnote 23 Special Interest	·	
			STARITA ETAL	Cited for Related Interest	73/862.044	
			RICHARDS	Cited for Related Interest	200/61.43	
•		11/6/1973	BAILEY	Cited for Related Interest	318/580	
· · · · · · · · · · · · · · · · · · ·		4/23/1974	MITCHELL	Footnote 80 Special Interest		
			HILL ETAL	Cited for Related Interest	73/862	
			TSUJI ETAL	Cited for Related Interest	200/511	
		10/26/1976	HYODO	Cited for Related Interest	200/511	
	3993884	11/23/1976	KONDUR ETAL	Footnote 75 Special Interest	200/295	
			EDMOND	Cited for Related Interest	73/862	
	4133012	1/2/1979	TAKAMIYA ETAL	Footnote 77 Special Interest	360/90	
	4158759	6/19/1979	MASON	Footnote 41 Special Interest	219/720	
	4164634	8/14/1979	GILANO	Cited for Related Interest	200/5A	
		8/5/1980	COLSTON	Cited for Related Interest	341/20	
			ANDERSON ETAL	Cited for Related Interest	340/321	
		1/20/1981	CHANDLER	Footnote 62 Special Interest		
			EVENTOFF	Cited for Related Interest	338/69	
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			SHUMWAY	Cited for Related Interest	200/6A	
			EVENTOFF	Cited for Related Interest	200/5A	
			THORNBURG	Footnote 28 Special Interest		
	4314228			Cited for Related Interest	338/114	
	4314227			Cited for Related Interest	338	
	4315238		EVENTOFF	Cited for Related Interest	338	
	4348142			Cited for Related Interest	414/2	
				Cited for Related Interest	200/6A	
				Cited for Related Interest	73/862.043	
				Cited for Related Interest	463/2	
				Cited for Related Interest	368/29	
				Footnote 42 Special Interest		
				Cited for Related Interest	200/6A	
				Cited for Related Interest	341/20	
				Cited for Related Interest	338/114	
				Cited for Related Interest	701/4	
	4469330			Cited for Related Interest	463/38	
	4469930			Cited for Related Interest	219/121.72	
				Cited for Related Interest	338/99	
				Cited for Related Interest	200/5	
	4491325			Footnote 91 Special Interest		
				Cited for Related Interest	273/148	
				Cited for Related Interest	200/5R	
	4536/46	8/20/1985	GOBELI	Cited for Related Interest	341/20	

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Examiner			Patentee or Applicant	Relevent Information	US Class
<u>Initials</u>	<u>Patent</u>		<u>Name</u>		
	<u>Number</u>				
	1536746	8/20/1985	GOBELI	Footnote 26 Special Interest	3/1/20
		10/8/1985	KIRSCH	Cited for Related Interest	345/166
			BROMLEY ETAL	Cited for Related Interest	463/38
		12/3/1985	KING	Footnote 1 Special Interest	
		3/4/1986	Mayon	Cited for Related Interest	273/148
		8/5/1986	CLANCY ETAL	Cited for Related Interest	200/513
			Thomas	Footnote 92 Special Interest	
		10/7/1986	YAMAUCHI ETAL	Cited for Related Interest	84/687
			Grant	Cited for Related Interest	273/148
			BOUGHTON	Cited for Related Interest	345/156
			WILSON	Cited for Related Interest	361/725
			ZEMKE	Cited for Related Interest	345/157
			KATAOKA	Cited for Related Interest	341/11
		7/14/1987	STRAAYER ETAL	Footnote 67 Special Interest	
			LELY	Cited for Related Interest	248/124.1
			SHIRAI	Cited for Related Interest	463/37
		9/15/1987	ALVITE	Cited for Related Interest	318/568.11
			ICHIKAWA	Cited for Related Interest	219/708
			ANDRESEN	Cited for Related Interest	219/708
			MICHALCHIK	Cited for Related Interest	307/119
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				Cited for Related Interest	345/160
		3/14/1989	HILTON	Cited for Related Interest	73/862.043
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		8/22/1989		Footnote 54 Special Interest	
					386/69
					360/40
				Footnote 16 Special Interest	
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	4924216	5/8/1990		Footnote 11 Special Interest	
	4933670	6/12/1990		Footnote 10 Special Interest	
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	4962448	10/9/1990			700/17
	4975676	12/4/1990		Cited for Related Interest	338/114
	5038144			Cited for Related Interest	341/176
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			GARRETT	Footnote 13 Special Interest	
			ENGEL		200/6A
	5103404		MCINTOSH		318/568
	5116051	5/26/1992	MONCRIEF ETAL	Cited for Related Interest	463/36
	5128671	7/7/1992			341/20
			DAUENHAUER ETAL	Cited for Related Interest	338/92
	5139439			Cited for Related Interest	439/359
	5142931			Footnote 7 Special Interest	74/471XY
				Footnote 58 Special Interest	338/69
				Cited for Related Interest	324/207
			SHIBAYAMA ETAL	Cited for Related Interest	345/841
	5183998	2/2/1993	HOFFMAN ETAL	Cited for Related Interest	219/492
	5184830			Footnote 51 Special Interest	463/29
					318/685
	5196782	3/23/1993	D'ALEO ETAL	Cited for Related Interest	323/320

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	5200597	4/6/1993	EASTMAN	Cited for Related Interest	235/455
			LOPER	Footnote 64 Special Interest	
		5/4/1993	INOUE ET AL	Footnote 20 Special Interest	
		6/29/1993	HILTON	Footnote 88 Special Interest	
		7/27/1993		Footnote 18 Special Interest	345/174
		8/17/1993	MAILEY ETAL		345/167
		10/5/1993	YOSHIDA ETAL	Footnote 15 Special Interest	
			FRANK ETAL	Footnote 3 Special Interest	
_		11/9/1993	НО		463/37
			GREGORY ETAL	Footnote 32 Special Interest	
			FISCHER	Cited for Related Interest	74/471XY
-			PARKER	Cited for Related Interest	D14/218
			STOKES ETAL	Cited for Related Interest	341/34
		1/25/1994	SOGGE ETAL		277/641
		2/15/1994	PARSONS	Cited for Related Interest	345/156
		2/15/1994	WINBLAD		273/148B
		3/8/1994	SOMA	Cited for Related Interest	345/161
		3/15/1994	CHIANG	Footnote 52 Special Interest	
	5298919	3/29/1994	CHANG	Cited for Related Interest	345/163
	5311779	5/17/1994	TERUO	Cited for Related Interest	73/726
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	5315204	5/24/1994	PARK	Footnote 50 Special Interest	310/339
	5327201	7/5/1994	COLEMAN ETAL	Footnote 70 Special Interest	399/342
	5329276	7/12/1994	HIRABAYASHI	Cited for Related Interest	340/870.31
_	5333057	7/26/1994	MORIKAWA ETAL	Cited for Related Interest	358/296
		9/13/1994	BUTTS ETAL	Footnote 73 Special Interest	73/1.15
			FONG		345/166
			KOBAYASHI ETAL	Footnote 37 Special Interest	368/281
			ESNOUF		368/281
			LYNCH	Footnote 39 Special Interest	368/10
			PINE ETAL		338/114
			RISKO		174/52.3
			SOULIERE	Footnote 57 Special Interest	
			ROEBUCK ETAL		174/52.3
			BRADLEY		D14/410
		2/28/1995	SMITH, III, ETAL		345/156
		3/7/1995	MAESHIMA	Footnote 92 Special Interest	
		3/7/1995	OKADA ETAL	Footnote 55 Special Interest	
		3/21/1995	MCCUSKER	Footnote 74 Special Interest	
		5/30/1995	Wedeking		297/217
		8/8/1995	BROWN ETAL	Footnote 83 Special Interest	
		9/26/1995	HILTON		73/862
			FRANK		345/158
			BOUTON		463/37
			MIMLITCH		345/161
			BEISWENGER ETAL		368/69
				Footnote 33 Special Interest	
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			O'MARA ETAL	Footnote 38 Special Interest	
			Corballis	Footnote 93 Special Interest	
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	5528265	6/18/1996	Harrison	Cited for Related Interest	345/158

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_				Footnote 34 Special Interest	
		8/6/1996		Footnote 68 Special Interest	
		8/27/1996			200/5A
		9/3/1996		Footnote 53 Special Interest	
		9/3/1996		Cited for Related Interest	463/37
			ONO ETAL	Cited for Related Interest	345/161
			LOGUE		324/207.17
			ARMSTRONG	Footnote 90 Special Interest	
			MINELLI ETAL	Footnote 60 Special Interest	
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				Cited for Related Interest	73/862
				Cited for Related Interest	345/158
			REGISTER ETAL	Cited for Related Interest	455/556.2
		3/4/1997	Chan	Cited for Related Interest	273/148B
		3/25/1997	Burnett	Cited for Related Interest	361/686
		6/17/1997 7/1/1997	VICTOR ETAL DATE ETAL	Cited for Related Interest Cited for Related Interest	717/113 200/5R
			ZEITMAN	Cited for Related Interest	
		8/12/1997	LIAO	Cited for Related Interest	D14/162 345/163
		8/19/1997	YANIGER ETAL	Cited for Related Interest	345/156
			NESTOR		200/556
				Footnote 24 Special Interest	
				Cited for Related Interest	345/157
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				Cited for Related Interest	341/22
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				Footnote14 Special Interest	
				Footnote 30 Special Interest	
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	5704612				273/402
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		4/14/1998			273/148B
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	5764219		RUTLEDGE ET AL		345/159
				Cited for Related Interest	345/161
				Cited for Related Interest	345/161
				Cited for Related Interest	345/161
				Cited for Related Interest	345/685
	5778404			Cited for Related Interest	715/531
			GLASSGOLD ETAL	Footnote 79 Special Interest	396/71
	5790102		NASSIMA		345/163
	5805138	9/8/1998			345/156
	5812114	9/22/1998	LOOP	Footnote 35 Special Interest	345/157
					345/157
	5828363	10/27/1998			345/156
					345/161
			KAMENTSER ETAK	Cited for Related Interest	73/862.05
	4786764	11/22/1998		Footnote ?? Special Interest	178/18

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	Number				
			YOSHIKAWA ETAL	Footnote 45 Special Interest	
			YANIGER	Cited for Related Interest	338/99
			REDFORD ETAL	Footnote 31 Special Interest	
			REAVY ETAL	Cited for Related Interest	345/173
			GRANT	Cited for Related Interest	345/169
			GOTO ETAL	Cited for Related Interest	463/37
			BRANNON	Cited for Related Interest	345/161
		2/2/1999	SELKER ETAL	Cited for Related Interest	702/41
			LOPATUKIN ETAL	Cited for Related Interest	340/7.52
			HO ETAL	Cited for Related Interest	345/163
			GILLESPIE ET AL	Cited for Related Interest	178/18.01
				Footnote 17 Special Interest	
			GILLESPIE ETAL	Cited for Related Interest	187/18.01
			KING ETAL	Cited for Related Interest	707/104.1
			ELLIS	Cited for Related Interest	338/47
		4/27/1999	SEKINE	Footnote 19 Special Interest	
			НО	Cited for Related Interest	345/156
			KIM	Footnote 27 Special Interest	
				Footnote 76 Special Interest	
				Cited for Related Interest	368/83
				Footnote 36 Special Interest	
					340/825
				Footnote 25 Special Interest	
	5948066	9/7/1999	WHALEN ETAL	Footnote 44 Special Interest	709/229
			MIYAKI	Cited for Related Interest	200/6A
	5963196	10/5/1999	NISHIUMI ETAL	Cited for Related Interest	345/161
	5966117	10/12/1999	SEFFERNICK ETAL	Cited for Related Interest	345/161
	5974238	10/26/1999	CHASE	Cited for Related Interest	709/248
			WATANABE	Cited for Related Interest	345/157
			SHAW ETAL	Footnote 78 Special Interest	709/227
	5984785	11/16/1999	TAKEDA ETAL	Cited for Related Interest	463/38
					434/317
			SELLERS	Footnote 26 Special Interest	341/34
			TANIGAWA ETAL	Cited for Related Interest	360/90
					338/114
				Footnote 49 Special Interest	
				Footnote 66 Special Interest	
				Cited for Related Interest	463/36
	6020884			Cited for Related Interest	345/747
				Footnote 56 Special Interest	
				Cited for Related Interest	345/169
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				Footnote 29 Special Interest	
				Cited for Related Interest	345/784
	6059660				463/38
	6060701		MCKEE ETAL	Cited for Related Interest	219/681
	6064766	5/16/2000	SKLAREW	Cited for Related Interest	382/189
	6067005	5/23/2000	DEVOLPI	Cited for Related Interest	338/47
	6067863	5/30/2000	FAVRE ETAL	Cited for Related Interest	73/862.68
	6072469			Cited for Related Interest	345/157
	6073034				455/566
				Footnote 117 Special Interest	

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Examiner			Patentee or Applicant	Relevent Information	US Class
<u>Initials</u>	<u>Patent</u>		<u>Name</u>		
	<u>Number</u>				
		8/29/2000	KANE	Footnote 40 Special Interest	
		9/12/2000	POWELL	Footnote 46 Special Interest	
		9/26/2000	TODA ETAL	Cited for Related Interest	345/157
			ARMSTRONG	Cited for Related Interest	463/37
			DATE ETAL	Cited for Related Interest	200/339
		12/5/2000	TRAN ETAL	Cited for Related Interest	715/503
		12/5/2000	BATES ETAL	Cited for Related Interest	345/786
		1/23/2001	YAMAGISHI ETAL	Cited for Related Interest	455/566
		1/23/2001	KUNERT	Footnote 71 Special Interest	
			ITO ETAL	Cited for Related Interest	368/37
		3/6/2001	ARMSTRONG		345/163
_	6198948	3/6/2001	SUDO ÉTAL	Footnote 43 Special Interest	
			LECTION ETAL		345/161
		3/27/2001	ARMSTRONG	Cited for Related Interest	341/34
		4/24/2001	ARMSTRONG	Cited for Related Interest	345/161
	6231444	5/15/2001	GOTO ETAL	Footnote 47 Special Interest	463/37
	6239786	5/29/2001	BURRY ETAL		345/161
	6256011	7/3/2001	CULVER	Footnote 63 Special Interest	345/157
			MCKEE ETAL	Footnote 72 Special Interest	219/681
	6275138	8/14/2001	MAEDA	Cited for Related Interest	338/47
	6285356	9/4/2001	ARMSTRONG		345/167
	6310606	10/30/2001	ARMSTRONG	Cited for Related Interest	345/161
	6321158	11/20/2001	DELORME ETAL	Footnote 69 Special Interest	701/201
	6326948	12/4/2001	KOBACHI ETAL	Footnote 65 Special Interest	
	6343991	2/5/2002	ARMSTRONG	Cited for Related Interest	463/37
	6344791	2/5/2002	ARMSTRONG	Cited for Related Interest	338/114
	6347997	2/19/2002	ARMSTRONG	Cited for Related Interest	463/37
		2/26/2002	ARMSTRONG	Cited for Related Interest	338/114
			SOMA ETAL	Cited for Related Interest	463/36
	6400303		ARMSTRONG	Cited for Related Interest	341/176
	6415707		ARMSTRONG		99/280
			ARMSTRONG		360/88
			THORNER ETAL		463/30
			ARMSTRONG	Footnote 117 Special Interes	
				Cited for Related Interest	386/46
			1	Cited for Related Interest	345/159
			ARMSTRONG	Cited for Related Interest	379/93.19
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	6504527			Cited for Related Interest	345/159
				Cited for Related Interest	345/159
		2/25/2003	KOMATA	Cited for Related Interest	463/37
	6529185		ARMSTRONG	Cited for Related Interest	345/159
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	6559831				345/159
				Cited for Related Interest	338/47
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		8/14/2001		Cited for Related Interest	345/156
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		9/17/1991		Footnote 100 Special Interest	
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				Footnote 98 Special Interest	

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	<u>Number</u>					
-	1950501	7/25/1989	CAPCON CO.	Cited for related Interest	273/85	
			KONAMI CO:		463/3	
		The second secon	NAKAMURA		463/6	
			MOTOROLA, INC.	Cited for related Interest	340/870	
			MATSUSHITA ELE.		600/595	
			TODA ET AL		345/157	
				Footnote 99 Special Interest		
					463/53	
					345/629	
				Footnote 101 Special Interes		
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				Footnote 106 Special Interest Cited for related Interest		
			YATES ET AL		345/157 345/156	
			KAKU ET AL			
			OWEN ET AL	Footnote 103 Special Interest		
				Footnote 105 Special Interest		-
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	5880411			Cited for related Interest	178	
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	5543590			Cited for related Interest	178	
				Cited for related Interest	340	
	5675524	10/7/1997	BERNARD; MARC	Cited for related Interest	708	

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	Application Number:	09/896,680		<u> </u>			
	Filing Date: June 29						
	First Named Unit: B	rad A. Armstrong				<u> </u>	
	Group Art Unit: 3713						
	Examiner's Name: N	Nguyen, Kim					
	Applicant File Number	er: F29					
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	Ball-Actuating	Interest					
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	and Tactile		İ				
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	Disclosure Bulletin,						
	Volume 20, No. 5,						
i	October 1977, pp.				ĺ		ļ
	1833-1834						
	USB DEVICE	Cited for related interest					
	CLASS						
	DEFINITION FOR						
	HUMAN DEVICES,						
	OCT, 14, 1998		ļ				
		Cited for related interest	ł			1	
	Questel-Orbit						·
	QWEB dated		1				
	December 1999,						
	pages 1-24 having						
	short descriptions /						
	abstracts thereon		1				
	are submitted						
	herewith by		į				
	Applicant for study.	Cited for related interest	-				ļ <u>-</u>
		Cited for related interest					
	hand held controller						
	for video games					i	
	having a button to						
	drive a gear and						
	rotate a rotary potentiometer	l					
	which creates an						ŀ
	analog signal						
	change based on				i		
	positional change;						
	to be considered						
	prior art to some of						
	Applicant's claims.						
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EXAMINER INITIALS	NON PATENT LITERATURE DOCUMENTS AND OTHERS REFERENCES	Additional Data in Footnote			
	CH Products, San Marcos, Califonia USA, a joystick which uses a gimbal and rotary potentiometers, the joystick is prior art sold in stores.				
	known prior art are rotary operated potentiometers which have an Off position usually in the far counterclockwise direction of rotation and an audible "click" is provided when rotated in or out of the Off position. Such potentiometers are variable output electrical devices controlled by rotation.	Cited for related interest			

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	IBM TECHNICAL	Cited for related interest	1			İ	
	DISCLOSURE						
	BULLETIN, vol. 21,						
	no. 9, Feb. 1, 1979,						i
	pages 3845-3846,					i	
	Anonymous author,		1				
	Title: "Keyboard						
	Device For Upper						
	And Lower Case						
	Keying Without	1					
	Shifting". The						
	Present Applicant		1		1	1	1
	could not locate a			1			
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	copy of this IBM				1	1	
	disclosure but lists		1				
	the data because it						
	was cited as an "X"						
	reference in a						
	European Patent						
	Office Search						
	report on a related			ļ			
	invention filed for by				İ		
	another Applicant.						
	Jim Boyce et al,	Cited for related interest					
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Examiner			Date	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## Footnotes – References of Special Interest

Re: Patent Application of Brad A. Armstrong

Serial No.:

09/896,680

Filed:

06/29/2001

Applicant's file No. F29

Correspondence mailing address: Brad A. Armstrong

P.O. 2048

Carson City, NV 89702

Title: CONTROLLER WITH ANALOG PRESSURE SENSOR(S)

Examiner: Nguyen, Kim

GAU: 3713

## Footnote numbers:

- 1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's US patent application serial number 07/847619 in the Office Action dated 5/17/1994. In that Office Action on pages 9-14 Examiner A. Hill asserted a 35 USC 102 rejection in sections 5-6 and a 35 USC 103 rejection in sections 7-10.
- 1 Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the Office Action dated 9/28/1994. In that Office Action on pages 6-11Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8.
- Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the Office Action dated 5/11/1995. In that Office Action on pages 11-17 Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11.
- Inventor King, US Patent Number 4555960 published on 12/3/1985 was relied upon against applicant's patent application serial number 07/847619 in the

Office Action dated 8/10/1995. In that Office Action on pages 17-32 Examiner A. Hill asserted a 35 USC 102 rejection in section 9 and a 35 USC 103 rejection in sections 11-17.

- The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-10 on pages 10-13.
- The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8 on pages 6-11.
- The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied upon against applicant's patent application No. 07/847619 in the Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11 on pages 11-17.
- The IBM Technical Disclosure Bulletin Vol. 32 No. 9B "Mouse Ball-Actuating Device With Force and Tactile Feedback" pages 230-235 published 2/1/1990 was relied against applicant's patent application No. 07/847619 in the Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 11-15 on pages 20-29.
- 3 Inventors Frank et at in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office

Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 9-10 on pages 12-13.

- Inventors Frank et at in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 7-8 on pages 6-11.
- Inventors Frank et at in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 10-11 on pages 11-17.
- Inventors Frank et at in US Patent 5252952 issued 10/1/1993 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in sections 14-17 on pages 24-32.
- Patent document No. EP0205726 of Nakamura published 12/30/1986 was relied upon against applicant's patent application no. 07/847619 in an Office Action dated 5/17/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 10 on pages 13-14.
- Inventor Kley, US Patent 4935728 issued 6/1/1990 was releid upon against applicant's patent application No. 07/847619 in an Office Action dated 9/28/1994. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 7-8 on pages 6-11.
- 5 Inventor Kley, US Patent 4935728 issued 6/1/1990 was relied upon against applicant's patent application No. 07/847619 in an Office Action dated

8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 14-17 on pages 24-32.

- Inventors Dzholdasbekov et al, patent document GB2240614 published Aug. 7,1991 was relied upon against applicant's application no. 07/847619 in an Office Action dated 5/11/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 10-11 on pages 11-17.
- Inventors Dzholdasbekov et al, patent document GB2240614 published Aug. 7,1991 was relied upon against applicant's application no. 07/847619 in an Office Action dated 08/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 102 rejection in sections 7-8 and a 35 USC 103 rejection in section 1, 13 on pages 20-32.
- Inventor Menahem, US Patent 5142931 issued 9/1/1992 was relied upon against applicant's patent application 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 14-17 on pages 24-32.
- Inventor Thomas, Jr., US Patent 5128671 issued 7/7/1992 was relied upon against applicant's application no. 07/847619 in an Office Action dated 8/10/1995. In that Office Action Examiner A. Hill asserted a 35 USC 103 rejection in section 16-17 on pages 29-32.
- The product "Cyberman" is a controller sold to the public in 1993 by Logitech and which was relied upon against applicant's US Patent application no. 08/393459 in an Office Action dated 7/5/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 pages 2-4. Also, the resultant Patent from application no. 08/393459 listed the product as "Gyberman" instead of the correct name of Cyberman.

- 10 Inventor Wislocki, US Patent 4933670 issued 6/12/1990 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 7/5/1995 In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 pages 2-4.
- 10 Inventor Wislocki, US Patent 4933670 issued 6/12/1990 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 4-6 pages 2-5.
- 11 Inventor Leung, US Patent 4924216 issued 5/8/1990was relied upon against application application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 page 4.
- The article "Developement of a General Purpose Hand Controller for Advanced Teleoperation", KV Siva, Harwell Laboratory, UK, July1988 was relied upon against applicant's patent application no. 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 4-6 pages 2-5.
- 13 Inventor Garrett, US Patent 5065146 issued 11/12/1991 was relied upon against applicant's patent application 08/393459 in an Office Action dated 12/11/1995. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 6 pages 4-5.
- Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 3/23/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 pages 1-2.

- Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 6/26/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 102 rejection in section 4 and a 35 USC 103 rejection in section 6 pages 3-4.
- 14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 9 and a 35 USC 103 rejection in section 14 pages 5-6.
- 14 Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 3/13/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 5 page 3.
- Inventors Hoyt et al, US Patent 5687080 issued 11/11/997 was relied upon against applicant's US Patent application No. 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in sections 12-13 pages 5-6.
- 15 Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 3/23/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 103 rejection in section 4 page 2.
- Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 6/26/1998. In that Office Action Examiner J. Suraci asserted a 35 USC 103 rejection in section 6 page 4.

- Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 14 page 6.
- Inventors Yoshida et al, US Patent 5250930 issued 10/5/1993 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 3/13/2000. In that Office Action Examiner J. Brier asserted a 35 USC 103 rejection in section 5 page 3.
- Inventor Duimel, US Patent 4879556 issued 11/7/1989 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 10 page 5.
- 17 Inventors Engle et al, US Patent 5889507 issued 3/30/1999 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 11 page 6.
- 17 Inventors Engle et al, US Patent 5889507 issued 3/30/1999 was relied upon against applicant's US patent application 10/042,027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2-3 pages 2-4.
- Inventors Brandenburg et al, US Patent 5231386 issued 7/24/1990 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 9/30/1999. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 12 page 6.

- Inventors Brandenburg et al, US Patent 5231386 issued 7/24/1990 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 7 and a 35 USC rejection in sections 10, 12 pages 4-6.
- 19 Inventor Sekine, US Patent 5898425 issued 4/27/1999 was relied upon against applicant's US patent application 08/677378 in an Office Action dated 8/31/2000. In that Office Action Examiner J. Brier asserted a 35 USC 102 rejection in section 8 and a 35 USC rejection in sections 11, 13 pages 4-6.
- Inventor Sekine, US Patent 5898425 issued 4/27/1999 was relied upon as a PCT "X" reference (lack of novelty indicated by "X") against applicant's PCT application NO. PCT/US99/28913 in a report dated April 19, 2002 by Examiner J. Brier.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No.08/942450 in an Office Action dated 8/18/1999. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2-3.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/164684 in an Office Action dated 2/6/2003. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2-3.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 09/510572 in an Office Action dated 2/13/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 pages 3-4.

- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/042027 in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-4 pages 2-4.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 10/042027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-3 pages 2-4.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon against Applicant's US Patent application No. 09/892430 in an Office Action dated 11/7/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 page 3.
- Inventors Inoue et al , US Patent 5207426 issued 5/4/1993 was relied upon as a PCT "Y" reference (used in obviousness) against Applicant's PCT application No. PCT/US99/28654 in an Office Action dated Sept. 13, 2001 by Examiner J. Paradiso.
- Inventors Inoue et at, US Patent 5207426 issued 5/4/1993 was relied upon as a PCT "y" reference (used in obviousness) against Applicant's PCT application No. PCT/US99/28654 in an Office Action dated March 15, 2000 by Examiner L. Libberecth.
- Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 08/942450 in an Office Action dated 8/18/1999. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2- 3.

- Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 10/164684 in an Office Action dated 2/6/2003. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 2 pages 2- 3.
- Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon against applicant's US patent application 09/892430 in an Office Action dated 11/7/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 page 3.
- Inventors Rutledge et al, US Patent 5764219 issued 6/9/1998 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application PCT/US99/28654 in an Office Action dated Sept. 13, 2001 by Examiner J. Paradiso.
- The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic, IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/106825 in an Office Action dated 4/26/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 3 and a 35 USC 103 rejection in section 5 pages 2-3.
- The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic , IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/106825 in an Office Action dated 6/24/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 page 2.

- The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic, IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/455821 in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and a 35 USC 103 rejection in section 7 pages 3-4.
- The article "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode" by Kambic, IBM Technical Disclosure Vol. 20, No. 5, pages 1833-1834, (October 1977) was relied upon against applicant's US patent application 09/710557 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 3 page 3.
- Inventor Fujita, US Patent 3611068 issued 10/5/1971 was relied upon against applicant's US patent application 09/106825 in an Office Action dated 4/26/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 5 pages 2-3.
- Inventor Fujita, US Patent 3611068 issued 10/5/1971 was relied upon against applicant's US patent application 09/106825 in an Office Action dated 6/24/1999. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 4 page 2.
- Inventors Thorne et al, US Patent 5670955 issued 9/23/1997 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 2-4 pages 2-12.

- Inventors Martinelli et al, US Patent 5943044 issued 8/24/1999 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 3-4 pages 8-12.
- Inventor Sellers, US Patent 5995026 issued 11/30/1999 was relied upon against applicant's US patent application 09/148806 in an Office Action dated 5/24/2000. In that Office Action Examiner T. Edwards Jr. asserted a 35 USC 103 rejection in sections 4 pages 11-12.
- 27 Inventor Kim, US Patent 5910798 issued 6/8/1999 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 2-6 pages 2-3.
- 27 Inventor Kim, US Patent 5910798 issued 6/8/1999 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 4-9 pages 2-4.
- Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 2-6 pages 2-3.
- Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 4-9 pages 2-4.

- Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon against applicant's US patent application 09/563109 in an Office Action dated 10/3/2002. In that Office Action Examiner H. Dang asserted a 35 USC 103 rejection in sections 6-7 pages 2-8.
- Inventor Thornburg, US Patent 4313113 issued 1/19/1982 was relied upon as a PCT "X" reference (lack of novelty indicated by "X") and also as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/12840 in a report dated October 13, 2000 by Examiner K. Wieder...
- Inventors Bertram et al, US Patent 6049812 issued 4/11/2000 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 6/20/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 6-7 page 3.
- Inventors Bertram et al, US Patent 6049812 issued 4/11/2000 was relied upon against applicant's US patent application 09/167314 in an Office Action dated 8/30/2000. In that Office Action Examiner K. Nguyen asserted a 35 USC 103 rejection in sections 8-9 page 4.
- Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in sections 4-7 pages 2-6.
- Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/510572 in an Office Action dated 2/13/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 pages 3-4.

- Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon against applicant's US Patent application 09/941310 in an Office Action dated 4/8/2003. In that Office Action Examiner A. Jankus asserted a 35 USC 102 rejection in section 4 pages 2-3.
- Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/33253 in a report dated April 11, 2001 by Examiner J. Paradiso.
- Inventor Asher, US Patent 5689285 issued 11/18/1997 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application NO. PCT/US00/33397 in a report dated April 19, 2001 by Examiner J. Paradiso
- Inventor Redford, US Patent 5847694 issued 12/8/1998 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 5 page 4.
- Inventors Gregory et al, US Patent 5264768 issued 11/23/1993 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 6 pages 4-5.
- Inventors Brandenburg et al, US Patent 5499041 issued 3/12/1996 was relied upon against applicant's US Patent application 09/253263 in an Office Action dated 10/4/2000. In that Office Action Examiner T. Mengisteab asserted a 35 USC 103 rejection in section 7 pages 5-6.
- Inventors Engle et al, US Patent 5541622 issued 7/30/1996 was relied upon against applicant's US Patent application 09/253263 in an Office Action

dated 3/272001. In that Office Action Examiner A. Jankus asserted a 35 USC 103 rejection in section 2 pages 2-4.

- Inventor Loop, US Patent 5812114 issued 9/22/1998 was relied upon against applicant's US Patent application 09/566678 in an Office Action wherein Examiner C. Nguyen asserted a 35 USC 102 rejection in section 2 and a 35 USC 103 rejection in section 4 pages 2-4.
- Inventors Sayler et al, US Patent 5923317 issued 7/13/1999 was relied upon against applicant's US Patent application 09/566678 in an Office Action wherein Examiner C. Nguyen asserted a 35 USC 103 rejection in section 4 pages 3-4.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 8-16 pages 4-11.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7 pages 3-4.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699926 in an Office

Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-7 pages 3-5.

- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 7-8 pages 4-6.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699854 in an Office

Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.
- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733468 in an Office

Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-6.

- 37 Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/212001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 14-16 pages 4-7.
- Inventors Kobayashi et al, US Patent 5355352 issued 10/11/1994 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-13 pages 5-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 8-16 pages 4-11.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7 pages 3-4.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699926 in an Office Action

dated 3/12/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 7 page 5.

- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 7-8 pages 4-6.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4, 6 pages 3-5.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699854 in an Office Action

dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.

- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 4-6
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-12 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733468 in an Office Action

dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-6.

- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 9-11 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 14-16 pages 4-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-13 pages 5-7.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon as a PCT "Y" reference (used in obviousness) against applicant's PCT application No. PCT/US00/33253 in an Office Action dated April 11, 2001 by Examiner J. Paradiso.
- Inventors O'Mara et al, US Patent 5510812 issued 4/23/1996 was relied upon as a PCT "Y" reference (used in obviousness)against applicant's PCT application No. PCT/US00/33397 in an Office Action dated April 19, 2001 by Examiner J. Paradiso.
- 39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 9 page 6.

- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699926 in an Office Action dated 3/2/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 7 page 4.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699799 in an Office Action dated 10/3/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 8 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699853 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- 39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated

- 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699854 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699655 in an Office Action dated 5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699826 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/702091 in an Office Action dated 2/28/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 11-12 pages 6-7.
- 39 Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated

- 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 6-7.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733468 in an Office Action dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 pages 5-6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 10 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 15 page 6.
- Inventor Lynch, US Patent 5365494 issued 11/15/1994 was relied upon against applicant's US Patent application 09/733437 in an Office Action dated 12/18/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventor Kane, US Patent 6112014 issued 8/29/2000 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 10 page 7.
- Inventor Mason, US Patent 4158759 issued 6/19/1979 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 pages 7-8.

- Inventor Mason, US Patent 4158759 issued 6/19/1979 was relied upon against applicant's US Patent application 09/733435 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 7.
- Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 8.
- Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/699816 in an Office Action dated 4/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.
- Inventor Oota, US Patent 4406217 issued 9/27/1983 was relied upon against applicant's US Patent application 09/733468 in an Office Action dated 4/24/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 page 6.
- Inventors Sudo et al, US Patent 6198948 issued 3/6/2001was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 13 pages 8-9.
- Inventors Sudo et al, US Patent 6198948 issued 3/6/2001was relied upon against applicant's US Patent application 09/600655 in an Office Action dated

5/25/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.

- Inventors Whalen et al, US Patent 5948066 issued 9/7/1999was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 14 page 9.
- Inventors Whalen et al, US Patent 5948066 issued 9/7/1999was relied upon against applicant's US Patent application 09/699854 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page7.
- Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated 3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 15 page 10.
- Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.
- Inventors Yoshikawa et al, US Patent 5847305 issued 12/8/1998 was relied upon against applicant's US Patent application 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-6 pages 2-5.
- Inventor Powell, US Patent 6118979 issued 9/12/2000 was relied upon against applicant's US Patent application 09/568662 in an Office Action dated

3/15/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 16 pages 10-11.

- Inventor Powell, US Patent 6118979 issued 9/12/2000 was relied upon against applicant's US Patent application 09/702176 in an Office Action dated 3/14/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 12 page 7.
- Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/551513 in an Office Action dated 9/25/2001. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on page 4.
- Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/627564 in an Office Action dated 9/26/2001. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on page 4.
- Inventors Goto et al, US Patent 6231444 issued 5/15/2001 was relied upon against applicant's US Patent application 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 on pages 4-5.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5 on pages 3-4.
- 48 Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's

US patent application no. 09/699926 in an Office Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-7 on pages 3-5.

- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 1/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5, 7 on pages 3-5.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-6 on pages 2-5.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 2-10.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 3-6.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that

Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 4-6.

- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/955838 in an Office Action dated 5/3/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and a 35 USC 103 rejection in section 7 on pages 4-5.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/955838 in an Office Action dated 7/12/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 6 on page 4.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 3-4 on pages 2-4.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/042027 in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 2-3 on pages 2-4.
- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 09/896680 in an Office Action dated 7/31/2003. In that

Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and a 35 USC 103 rejection on pages 2-5.

- Unexamined Japanese patent document No. JP 5-87760 naming Furukawa as Inventor published 11/26/1993 was relied upon against applicant's US patent application no. 10/329142 in an Office Action dated 6/12/2003. In that Office Action Examiner S. Jones asserted a 35 USC 103 rejection in section 10 on pages 5-9.
- Inventor LaDue, US Patent 5999808 issued 12/7/1999 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 102 rejection on pages 3-4.
- Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 5-7.
- Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 3.
- Inventor Park, US Patent 5315204 issued 5/24/1994 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Action Park was relied upon as a PCT "X" reference (lack of novelty indicated by "X") and also as a PCT "Y" reference (used in obviousness) by Examiner M. Zambuto.

- Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 7.
- Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 3.
- Inventor Okada, US Patent 5184830 issued 2/9/1993 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 2-6.
- Inventor Chiang, US Patent 5294121 issued 3/15/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 7-8.
- Inventor Chiang, US Patent 5294121 issued 3/15/1994 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.
- Inventor Hasiguchi, US Patent 5552799 issued 9/3/1996 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 8-9.

- Inventor Hasiguchi, US Patent 5552799 issued 9/3/1996 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.
- Inventor Sato, US Patent 4858930 issued 8/22/1989was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 1/9/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 8-9.
- Inventor Sato, US Patent 4858930 issued 8/22/1989was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 4.
- Inventors Okada et al, US Patent 5396225 issued 3/7/1995 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 9/25/2002. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 5-6.
- Inventor Hahn, US Patent 6027828 issued 2/22/2000 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on pages 2-6.
- Inventor Souliere, US Patent 5389757 issued 2/14/1995 was relied upon against applicant's US patent application no. 09/551513 in an Office Action dated 8/27/2003. In that Office Action Examiner S. Ashburn asserted a 35 USC 103 rejection on page 6.

- Inventor Kramer, US Patent 5164697 issued 11/17/1992 was relied upon against applicant's US patent application no. 09/455821 in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 7 on pages 3-4.
- Inventor Kramer, US Patent 5164697 issued 11/17/1992 was relied upon against applicant's US patent application no. 09/455821 in an Office Action dated 5/3/2002. In that Office Action Examiner K. Easthom asserted a 35 USC 102 rejection in section 5 and also a 35 USC 103 rejection in section 7 on pages 4-5.
- Inventors Murata et al, GB patent document No. GB 2113920 published 8/10/1983 was relied upon against applicant's US patent application no. 09/455821in an Office Action dated 4/19/2000. In that Office Action Examiner K. Easthom asserted a 35 USC 103 rejection in section 7 on pages 3-4.
- Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 10/042027in an Office Action dated 3/14/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 on page 4.
- Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 10/042027in an Office Action dated 12/4/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 3 on page 4.
- Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 on page 4.

- Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/699926 in an Office Action dated 3/12/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 6-7on pages 4-5.
- Inventors Minelli et al, US Patent 5564560 issued 10/15/1996 was relied upon against applicant's US patent application no. 09/699809 in an Office Action dated 3/22/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 5-6 on pages 4-5.
- Japanese unexamined patent document No. JP 7-302159 published 11/14/1995 naming Inventors Terajima et al was relied upon against applicant's US patent application no. 09/896680 in an Office Action dated 7/31/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 4-5.
- Japanese unexamined patent document No. JP 7-302159 published 11/14/1995 naming Inventors Terajima et al. was relied upon against applicant's US patent application no. 10/329142 in an Office Action dated 6/12/2003. In that Office Action Examiner S. Jones asserted a 35 USC 103 rejection in section 10 on pages 5-9.
- Inventor Chandler, US Patent 4246452 issued 1/20/1981 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.
- Inventor Chandler, US Patent 4246452 issued 1/20/1981 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/202002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.

- Inventor Culver, US Patent 6256011 issued 7/3/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.
- Inventor Culver, US Patent 6256011 issued 7/3/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-4 on pages 2-4.
- Inventor Loper, US Patent 5203563 issued 4/20/1993 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 12/5/2001. In that Office Action Examiner D. Chow asserted a 35 USC 102 rejection in section 6 and a 35 USC 103 in section 7 on pages 4-5.
- Inventor Loper, US Patent 5203563 issued 4/20/1993 was relied upon against applicant's US patent application no. 09/710557 in an Office Action dated 12/4/2001. In that Office Action Examiner D. Chow asserted a 35 USC 102 rejection in section 4 and a 35 USC 103 in sections 2,5 on pages 2-4.
- Inventors Kobachi et al, US Patent 6326948 issued 12/4/2001 was relied upon against applicant's US patent application no. 09/721848 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in section 5 on pages 4-5.
- Inventors Ogata et al, US Patent 6001014 issued 12/14/1999 was relied upon against applicant's US patent application no. 09/710557 in an Office Action dated 5/20/2002. In that Office Action Examiner D. Chow asserted a 35 USC 103 rejection in sections 2-3 on pages 2-3.

- Inventors Straayer et al, US Patent 4680577 issued 7/14/1987 was relied upon against applicant's US patent application no. 09/941310 in an Office Action dated 4/8/2003. In that Office Action Examiner A. Jankus asserted a 35 USC 102 rejection in section 3 on pages 2-3.
- Inventors Ganucheau et al, US Patent 5543781 issued 8/6/1996 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5 on pages 3-4.
- Inventors DeLorme et al, US Patent 6321158 issued 11/20/2001 was relied upon against applicant's US patent application no. 09/702176 in an Office Action dated 3/13/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 4 on page 3.
- Inventors DeLorme et al, US Patent 6321158 issued 11/20/2001 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 1/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 4-5, 7 on pages 3-5.
- Inventors Coleman et al, US Patent 5327201 issued 7/5/1994 was relied upon against applicant's US patent application no. 09/699817 in an Office Action dated 11/30/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in sections 10-11 on pages 4-6.
- Inventor Kunert, US Patent 6177926 issued 1/23/2001 was relied upon against applicant's US patent application no. 09/699853 in an Office Action dated 11/17/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 5 on page 4.

- Inventors McKee et al, US Patent 6262406 issued 7/17/2001 was relied upon against applicant's US patent application no. 09/702239 in an Office Action dated 12/1/2002. In that Office Action Examiner J. Paradiso asserted a 35 USC 102 rejection in section 10 on page 4.
- Inventors Butts et al, US Patent 5345807 issued 9/13/1994 was relied upon against applicant's US patent application no. 09/702239 in an Office Action dated 7/30/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and also a 35 USC 103 rejection on pages 2-3.
- Inventors Butts et al, US Patent 5345807 issued 9/13/1994 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 102 rejection and also a 35 USC 103 rejection on pages 3-4.
- Inventor McCusker, US Patent 5399823 issued 3/21/1995 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 3-4.
- Inventors Kondur et al, US Patent 3993884 issued 11/23/1976 was relied upon against applicant's US patent application no. 09/733468 in an Office Action dated 8/26/2003. In that Office Action Examiner A. Enatsky asserted a 35 USC 103 rejection on pages 3-4.
- Inventor Burrell, US Patent 5910882 issued 6/8/1999 was relied upon against applicant's US patent application no. 09/733469 in an Office Action dated 5/23/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 11 on page 7.

- Inventors Takamiya et al, US Patent 4133012 issued 1/2/1979 was relied upon against applicant's US patent application no. 09/733586 in an Office Action dated 9/21/2001. In that Office Action Examiner J. Paradiso asserted a 35 USC 103 rejection in section 16 on page 7.
- Inventors Shaw et al, US Patent 5983004 issued 11/9/1999 was relied upon against applicant's US patent application no. 09/733437 in an Office Action dated 12/18/2001. In that Office Examiner Action J. Paradiso asserted a 35 USC 103 rejection in section 12 on page 7.
- Inventors Glassgold et al, US Patent 5781807 issued 7/14/1998 was relied upon against applicant's US application no. 09/733437 in an Office Action dated 12/18/2001. In that Office Examiner J. Paradiso asserted a 35 USC 103 rejection in section 13 on page 7.
- Inventor Mitchell, US Patent 3806471 issued 4/23/1974 was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office Examiner L. Libberecth asserted that the US Patent 3806471 reference was a PCT "Y" type reference (used in obviousness).
- Assignee Nintendo, patent document EP0470615 published was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office Examiner L. Libberecth asserted that the EP0470615 reference was a PCT "Y" type reference (used in obviousness).
- Assignee Thomson Brandt, patent document DE3542890 published June 19, 1987 was relied upon against applicant's PCT application no. PCT/US99/28654 in an Office Action dated March 15, 2000. In that Office

Examiner L. Libberecth asserted that the DE3542890 reference was a PCT "Y" type reference (used in obviousness).

- Inventor Brown, US Patent 5440237 issued 8/8/1995 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Office Examiner M. Zambuto asserted that the 5440237 reference was a PCT "Y" type reference (used in obviousness).
- Assignee Texas Instruments, patent document EP0579448 published January 19, 1994 was relied upon against applicant's PCT application no. PCT/US99/28914 in an Office Action dated April 26, 2000. In that Office Examiner M. Zambuto asserted that the EP0579448 reference was a PCT "Y" type reference (used in obviousness).
- Inventor Hilton, US Patent 5222400 issued June 29, 1993 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated May 26, 2000. In that Office Examiner M. Baldan asserted that the 5222400 reference was a PCT "Y" type reference (used in obviousness).
- Inventor Gobeli, US Patent 4536746 issued August 20,1985 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated May 26, 2000. In that Office Examiner M... Baldan asserted that the 4536746 reference was a PCT "Y" type reference (used in obviousness).
- Inventor Armstrong, US Patent 5589828 issued Dec. 31, 1996 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated April 19, 2002. In that Office Action Examiner J. Brier asserted that the 5589828 reference was a PCT "X" type (lack of novelty indicated by "X") and also a PCT "Y" type reference (used in obviousness).

- Inventor Armstrong, US Patent 5565891 issued Oct. 15, 1996 was relied upon against applicant's PCT application no. PCT/US99/28913 in an Office Action dated April 19, 2002. In that Office Action Examiner J. Brier asserted that the 5589828 reference was a PCT "X" type reference (lack of novelty indicated by "X").
- Assignee Synaptics, patent document WO9718508 published May 22, 1997 was relied upon against applicant's PCT application no. PCT/US99/28956 in an Office Action dated April 27, 2000. In that Office Action Examiner P. Pham asserted that the WO9718508 reference was a PCT "X" type (lack of novelty indicated by "X").
- Inventors Maeshima et al, US Patent 5396235 issued March 7, 1995 was relied upon against applicant's PCT application no. PCT/US00/12840 in an Office Action dated Oct. 13, 2000. In that Office Action Examiner K. Wieder asserted that the 5396235 reference was a PCT "Y" type reference (used in obviousness).
- Inventor Bersheim, US Patent 4491325 issued 1/1/1985 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 102 rejection in section 3 and also a 35 USC 103 rejection in sections 6-8 on pages 2-5.
- Inventor Thomas, US Patent 4604502 issued 8/5/1986 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 103 rejection in section 7 on pages 4-5.
- 93 Inventor Corballis, US Patent 5512892 issued 4/30/1996 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated

5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 103 rejection in section 6 on page 4.

- Inventor Tano, US Patent 4909514 issued 3/20/1990 was relied upon against applicant's US patent application no. 08/707478 in an Office Action dated 5/30/1997. In that Office Action Examiner A. Wong asserted a 35 USC 102 rejection in section 4 and also a 35 USC 103 rejection in section 7 on pages 3-5.
- 95. Inventor Adan et al, US Patent Publication 2002/0036660 published Mar. 28, 2002 was relied upon against applicant's US patent application no. 09/754477 in an Office Action dated 09/25/2003. In that Office Action Examiner K. Nguyen asserted a 35 USC 102 rejection in section 7 and also a 35 USC 103 rejection in section 9 on pages 4-6.
- 96. Inventor Nassimi, US Patent 5,790,102 issued Aug. 4, 1998 was relied upon against applicant's US patent application no. 09/754477 in an Office Action dated 09/25/2003. In that Office Action Examiner K. Nguyen asserted a 35 USC 102 rejection in section 5 and also a 35 USC 103 rejection in section 9 on pages 4-6.
- 97. Inventor Poulsom of German Patent DE4013227 published 05/29/1991 is of interest and therefore Applicant is mentioning Poulsom. The Poulsom figures 2 and 3 joy stick 3 is a vertically structured element. Poulsom includes a motor and offset weight for providing active tactile feedback to the user.
- 98. Disclosure US Patent 5542039 of Brinson et al was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application, in Office Action Date Mailed 10/29/2003 (Office Action enclosed for Examiner's convenience)

- 99. Disclosure US Patent 5853324 of Kami et al was relied upon by the Examiner in somewhat related US Patent Application No. 09/757,806 of a third party in Office Action Date Mailed 11/04/2002. (Office Action enclosed for Examiner's convenience)
- 100. Disclosure US Patent 5049079 of Furtado et al was relied upon by the Examiner in a somewhat related application US Patent Application No. 09/758,106 of a third party, Office Action Date Mailed 10/02/2002 (Office Action enclosed for the Examiner's convenience).
- 101. Disclosure US Patent 6041068 of Rosengren et al. was relied upon in somewhat related US Patent application 09/758,044 by a third party, Office Action Date Mailed 01/29/2003. (Office Action enclosed for the Examiner convenience)
- 102. Disclosure US Patent 4713007 of Alban was relied upon by the Examiner in somewhat related US Patent Application No. 09/758,106 of a third party. Mario Party of the Mario Brothers game series was also relied upon by the Examiner. The Office Action Date Mailed 10/02/2002. (A copy of the Office Action is enclosed for the Examiner's convenience)
- 103. Disclosure US Patent 6322448 of Kaku et al was relied upon by the Examiner in somewhat related application US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).
- 104. Disclosure US Patent 6400353 of Ikehara et al was relied upon by the Examiner in US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).

- 105. Disclosure US Patent 6414996 of Owen et al was relied upon by the Examiner in US Patent Application No. 09/757,815 of a third party in Office Action Date Mailed 02/27/2003. (Copy of the Office Action is enclosed for the Examiner's convenience).
- 106. Disclosure US Patent 5358259 of Best was relied upon by the Examiner in somewhat related US Patent Application No. 09/757,813 of a third party in Office Action Date Mailed 04/04/2003 (Copy of the Office Action is enclosed for the Examiner's convenience).
- 107. Disclosure US Patent Publication No. US 2001/0040585 of Hartford was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application Office Action Date Mailed 10/29/2003 (Office Action enclosed herein for the Examiner's convenience).
- 108. Disclosure US Patent Publication No. US 2002/0122027 of Kim was relied upon by the Examiner in US Patent Application No. 09/758,032 of a third party in a somewhat related application Office Action Date Mailed 10/29/2003 (Office Action enclosed herein for the Examiner's convenience).
- 109. Disclosure US Patent 6,155,926 of Miyamoto et al was relied upon by the Examiner in US Patent Application No. 09/757,811 of a third party in a somewhat related application, Office Action Date Mailed 07/16/2002 (Office Action enclosed for Examiner's convenience).
- 110. Disclosure US Patent 6,028,531 of Wanderlich et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 01/02/2003 (Office Action enclosed for Examiner's convenience).

- 111. Disclosure US Patent 5,999,168 of Rosenberg et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 08/01/2002 (Office Action enclosed for Examiner's convenience).
- 112. Disclosure JP 07-051467 of Mitsunori et al was relied upon by the Examiner in US Patent Application No. 09/757,812 of a third party in a somewhat related application, Office Action Date Mailed: 01/02/2003. (Office Action enclosed for Examiner's convenience)
- 113. Disclosure JP-B-H1-40545 was cited by a Third Party Applicant in the "BACKGROUND OF THE INVENTION" of the specification in U.S. Patent Application No. 09/757,812. Regarding the JP-B-H1-40545 disclosure the Third Party stated "For example, a pressure-sensitive type controller was disclosed in the publication of examined Japanese utility model application No. JP-B-H1-40545, wherein pressure-sensitive output is provided as an input to a VCO (variable control oscillator) and the output of the VCO is used for repeated fire in a game."
- 114. Disclosure US 2002/0054023, a published patent application, was relied upon in Applicant's US Patent Application 09/754,477, a somewhat related application. The Office Action Date Mailed 4/21/2004 is enclosed for Examiner's convenience.
- 115. Disclosure US Patent 5,367,631 was relied upon in Applicant's US Patent Application 09/754,477, a somewhat related application. The Office Action Date Mailed 4/21/2004 is enclosed for Examiner's convenience.

116. Disclosure US Patent 5,392,337 was relied upon by the Examiner in US Patent Application 09/757,807 in a third party somewhat related application, Office Action Date Mailed10/03/2003. US Patent 5,999,084 of Inventor Armstrong was also relied upon in the same Office Action. The Office Action Date Mailed 10/03/2003 is enclosed for Examiner's convenience.

117. Disclosure US Patent 6,102,802 of current Inventor Brad A. Armstrong was relied upon in a 35 USC 102 rejection by the Examiner of US Patent Application 09/758,031, a third party somewhat related application, Office Action Date Mailed 9/20/2002. US Patent 4,323,888 of Cole was also relied upon in the same Office Action. US Patent 6,102,802 was again relied upon in Application 09/758,031 in the Office Action of 03/18/2003. US Patent 6,424,336 of current Inventor Brad A. Armstrong was also relied upon in the 03/18/2003 Office Action of Application 09/758,031. The Office Action Date Mailed 03/18/2003 is enclosed for Examiner's convenience.